

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/805,681

DATE: 03/27/2001
TIME: 15:24:33

Input Set : A:\1137p00.app
Output Set: N:\CRF3\03272001\I805681.raw

ENTERED

3 <110> APPLICANT: INOUE, MASAYORI
4 PHADTARE, SANGITA
5 YAMANAKA, KUNITOSHI
6 KATO, IKUNOSHIN
8 <120> TITLE OF INVENTION: ANTIBACTERIAL ACTIVITY OF 4.5 DIHYDROXY-2-CYCLOPENTAN-1-ONE
9 (DHCP) AND CLONING A GENE CONFERRING DHCP RESISTANCE IN
10 ESCHERICHIA COLI
12 <130> FILE REFERENCE: 1137-P-00
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/805,681
C--> 15 <141> CURRENT FILING DATE: 2001-03-14
17 <150> PRIOR APPLICATION NUMBER: 60/228,727
18 <151> PRIOR FILING DATE: 2000-08-29
20 <160> NUMBER OF SEQ ID NOS: 2
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 3900
26 <212> TYPE: DNA
27 <213> ORGANISM: Escherichia coli
29 <400> SEQUENCE: 1
30 gccagccact cttccagctg acgcacggtg tagctgaccg cagaaggaac gcgatgcagc 60
31 tcctgtgccc cagcgctaaa actaccatta cgcgctaccg catcaacaac ttcgagtga 120
32 tattctgacc acatagtctg cctgcaaaat ttttgaacc agtcatcaaa tattaccgtt 180
33 tcacaacact aatttcactc cctacacttt gcggcggtgt ttaattgaga gatttagaga 240
34 atatacatgc aacctgggaa aagattttta gtctggctgg cgggtttgag cgtactcgg 300
35 tttctggcaa ccgatatgta tctgcctgct ttccgcccga tacaggccga cctgcaaacg 360
36 cctgcgtctg ctgtcagtcg cagccttagt ctgttccttg ccggttttgc cgcagcccag 420
37 cttctgtggg ggccgctctc cgaccgttat ggtcgtaaac cgggtattatt aatcggcctg 480
38 acaatttttg cgtaggtag tctggggatg ctgtgggtag aaaacgccgc tacgctgctg 540
39 gtattgcgtt ttgtacaggc tgtgggtgtc tgcgcgcggc cgggtatctg gcaagcatta 600
40 gtgacagatt attatccttc acagaaagt aaccgtattt ttgcggccat catgccgctg 660
41 gtgggtctat ctccggcact ggctcctctg ttaggaagct ggctgctggt ccatttttcc 720
42 tggcaggcga ttttcgccac cctgtttgcc attaccgtgg tgcgtattct gcctattttc 780
43 tggctcaaac ccacgacgaa ggcccgtaac aatagtcagg atggtctgac ctttaccgac 840
44 ctgctacgtt ctaaaacctc tcgcggcaac gtgctgatat acgcagcctg ttcagccagt 900
45 ttttttgcac ggctgaccgg ttcaccgttc atccttagtg aaatgggcta cagcccgga 960
46 gttattggtt taagtattgt cccgcaaact atcgcgtttc tgattggtgg ttatggctgt 1020
47 cgcgcgcgcg tgcagaaatg gcaaggcaag cagttattac cgtggttgcg ggtgctgttt 1080
48 gctgtcagcg tcattgcgac ctgggctgcg ggcttcatta gccatgtgtc gctggtcgaa 1140
49 atcctgatcc cattctgtgt gatggcgatt gccaatggcg cgatctacc tattgttgtc 1200
50 gccagggcgc tgcgtccctt cccacacgca actggtcgcg ccgcagcgtt gcagaacact 1260
51 cttcaactgg gtctgtgctt cctcgcaagt ctggtagttt cctggctgat cagtatcagc 1320
52 acgccattgc tcaccaccac cagcgtgatg ttatcaacag taatgctggt cgcgctgggt 1380
53 tacatgatgc aacgttgtga agaagttggc tgccagaatc atggcaatgc cgaagtcgct 1440
54 catagcgaat cacactgacc tatatcgata tacttatact taggctgcta acaaaatttt 1500
55 gttgtatgat tgaaattagc ggcctatact aatttcgagt tgttaaagct acgataaata 1560
56 ttatgttttt acggggacag gatcgttccc gactcactat ggatagtcac ttcggcaagg 1620
57 gttcctcctt tccctctgtt ctacgtcgga ttatagactc gcggtttttt ctgcgagatt 1680

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,681

DATE: 03/27/2001

TIME: 15:24:33

Input Set : A:\1137p00.app

Output Set: N:\CRF3\03272001\I805681.raw

```

58 tctcacaag cccaaaaagc gtctacgctg ttttaaggtt ctgatcaccg accagtgatg 1740
59 gagaaactat gagttcatcg tgtatagaag aagtcagtgt accggatgac aactgggtacc 1800
60 gtatcgccaa cgaattactt agcctgcccg gtatagccat taacggttct gccccggcgg 1860
61 atattcgtgt gaaaaacccc gatTTTTTTT aacgcgttct gcaagaaggc tctttggggg 1920
62 taggcgaaag ttatatggat ggctgggtggg aatgtgaccg actggatatg ttttttagca 1980
63 aagtcttacg cgcaggtctc gagaaccaac tcccccatca tttcaaagac acgctgcgta 2040
64 ttgcccggcg togtctcttc aatctgcaga gtaaaaaacg tgcctggata gtcggcaaa 2100
65 agcattacga tttgggtaat gacttggtca gccgcatgct tgatcccttc atgcaatatt 2160
66 cctgcgctta ctggaaagat gccgataatc tggaatctgc ccagcaggcg aagctcaaaa 2220
67 tgatttgtga aaaattgcag ttaaaaccag ggatgcgcgt actggatatt ggctgcggct 2280
68 gggcgcgact ggcacactac attggcatcta attatgacgt aagcgtggtg ggcgtcacca 2340
69 tttctgccga acagcaaaaa atggctcagg aacgctgtga aggcctggat gtcaccattt 2400
70 tgcgtcaaga ttatcgtgac ctgaacgacc agtttgatcg tattgtttct gtggggatgt 2460
71 tcgagcacgt cggaccgaaa aattacgata cctattttgc ggtggtggat cgtaatttga 2520
72 aaccggaagg catattcctg ctccatacta tcggttcgaa aaaaaccgat ctgaatgttg 2580
73 atccctggat taataaatat atttttccga acggttgctt gccctctgta cgcagatttg 2640
74 ttcagtcagc ogaaccccac tttgtgatgg aagactggca taacttcggt gctgattacg 2700
75 atactacgtt gatggcgtgg tatgaacgat tcctcgccgc atggccagaa attgcggata 2760
76 actatagtga acgctttaaa cgaatgttta cctattatct gaatgcctgt gcaggtgctt 2820
77 tccgcgcccg tgatattcag ctctggcagg togtgttctc acgcggtgtt gaaaacggcc 2880
78 ttcgagtggc tcgctaaagg ctattctatc gccccctctc cggggcgcat ttcagatcag 2940
79 gcttctgtgc ctggttgatt catggcattt tctcgtgcgc ccagcacacg ttctaccgta 3000
80 tctaccactg cctgagtttg tggatcgatt tcaatgttga cgcgtgcgcc aagttttttc 3060
81 ttcccaagag togtgcgttc cagtgtttcc ggaattaaat ggacgcaaaa acgcgttggc 3120
82 gtgacttcgc cgacggtcag gctaataccg tcgatgccaa taaatccttt gtacagaata 3180
83 tatttcatca actgactatc ctggacttta aaccagatct ggcgattatt ttctgaggtt 3240
84 aatattttcg ccacttcagc agtggtcata atatgacctg acattaagtg tccgccaatt 3300
85 tcatcactga atttcgccc cgcctcaacg tttacccaat cccccacttt taaatcgcca 3360
86 agattggtaa tgcgtaacgt ttctttcatc aggtcaaaac tgacatgggt gccgttaatt 3420
87 tccgtcacgg tcaggcagca accgttatgc gccacggaag caccggttcc caggcgtcc 3480
88 agcatgtggt cgggtaaact caccacatgc gtacgaaaat ttggtttctc gtcaatcgac 3540
89 accagttttg cggtgccctg tacaatcccc gtaaacatac ttacaactcc tgaaatcagt 3600
90 taagacattc tgttcagcac aatagcaggt ggaaaacgcc cttaccagtg aaggggtaag 3660
91 aatggctatt ttttcaactg agaattaata aatcctcgct acaatagact gaatttcccc 3720
92 tgcttcttct ttttgcgtcc cattcaggcg gcttttttag ctctcatata actacaaata 3780
93 aaaggtgttc acgtgcagaa gtatatcagt gaagcgcgtc tgttattagc attagcaatc 3840
94 ccggtgattc tcgcgcaaat cgcctaaact cgcgtgggtt ttgtcagtac cgtgatggcg 3900
97 <210> SEQ ID NO: 2
98 <211> LENGTH: 1212
99 <212> TYPE: DNA
100 <213> ORGANISM: Escherichia coli
102 <400> SEQUENCE: 2
103 atgcaacctg ggaaaagatt tttagtctgg ctggcgggtt tgagcgtact cggttttctg 60
104 gcaaccgata tgtatctgcc tgccttcgcc gccatacagg ccgacctgca aacgcctgcg 120
105 tctgctgtca gtgccagcct tagtctgttc cttgccggtt ttgccgcagc ccagcttctg 180
106 tggggggccg tctccgaccg ttatggtcgt aaaccggtat tattaatcgg cctgacaatt 240
107 tttgcgttag gtagtctggg gatgctgtgg gtagaaaacg ccgctacgct gctgggtattg 300
108 cgttttgtac aggctgtggg tgtctgcgcc gcggcggtta tctggcaagc attagtgaac 360
109 gattattatc cttcacagaa agttaaccgt atttttgcgg ccatcatgcc gctggtgggt 420

```

RAW SEQUENCE LISTING

DATE: 03/27/2001

PATENT APPLICATION: US/09/805,681

TIME: 15:24:33

Input Set : A:\1137p00.app

Output Set: N:\CRF3\03272001\I805681.raw

```
110 ctatctccgg cactggctcc tctgttagga agctggctgc tgggccattt ttctggcag 480
111 gcgattttcg ccaccctgtt tgccattacc gtgggtgctga ttctgcctat tttctggctc 540
112 aaacccacga cgaaggcccg taacaatagt caggatgggc tgacctttac cgacctgcta 600
113 cgttctaaaa cctatcgcg caacgtgctg atatacgag cctgttcagc cagttttttt 660
114 gcatggctga ccggttcacc gttcatcctt agtgaaatgg gctacagccc ggcagttatt 720
115 ggtttaagtt atgtcccgca aactatcgcg tttctgattg gtggttatgg ctgtcgcgcc 780
116 gcgctgcaga aatggcaagg caagcagtta ttaccgtggt tgctgggtgct gtttgctgctc 840
117 agcgctcattg cgacctgggc tgcgggcttc attagccatg tgctcgctggt cgaaatcctg 900
118 atcccattct gtgtgatggc gattgccaat ggcgcgatct accctattgt tgtcgcccag 960
119 gcgctgcgct ccttcccaca cgcaactggt cgcgcccag cgttgcagaa cactcttcaa 1020
120 ctgggtctgt gcttcctcgc aagtctgcta gtttcctggc tgatcagtat cagcacgcca 1080
121 ttgctcacca ccaccagcgt gatgttatca acagtaatgc tggctcgctc gggttacatg 1140
122 atgcaacggt gtgaagaagt tggctgccag aatcatggca atgccgaagt cgctcatagc 1200
123 gaatcacact ga 1212
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/805,681

DATE: 03/27/2001

TIME: 15:24:34

Input Set : A:\1137p00.app

Output Set: N:\CRF3\03272001\I805681.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date